TLO143, TLO144

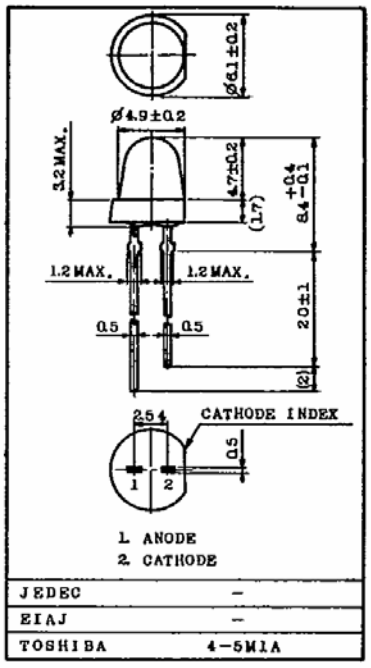
GaAsP ORANGE LIGHT EMISSION

4.9mm DIAMETER(T 1 3/4, LOW PROFILE)

FEATURES:

- SUPER-BRIGHT
- All Plastic Mold Type
  TLO143 : Orange Transparent Lens
  TLO144 : Orange Lusterless Lens
- Low Drive Current, High Intensity Orange Light Emission.
  Recommended Forward Current : I_F=15~20mA(DC)
- All Plastic Molded Lens, Provides an Excellent ON-OFF Contrast Ratio.
- Fast Response Time, Capable of Pulse Operation.

Unit in mm



JEDEC	–
EIAJ	–
TOSHIBA	4-5M1A

Weight : 0.23g

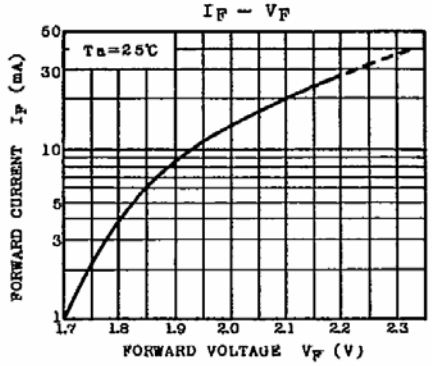
MAXIMUM RATINGS (Ta =25°C)

CHARACTERISTIC	SYMBOL	RATING	UNIT
Forward Current (DC)	I_F	25	mA
Reverse Voltage	V_R	4	V
Power Dissipation	P_D	70	mW
Operating Temperature Range	T_{opr}	-20~75	°C
Storage Temperature Range	T_{stg}	-30~100	°C

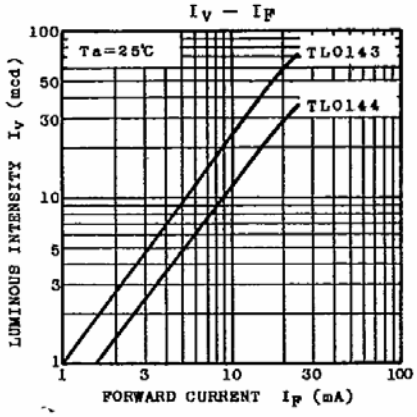
ELECTRO-OPTICAL CHARACTERISTICS (Ta =25°C)

CHARACTERISTIC		SYMBOL	TEST CONDITION	MIN.	TYP.	MAX.	UNIT
Forward Voltage		V_F	I_F=20mA	–	2.1	2.8	V
Reverse Current		I_R	V_R=4V	–	–	100	μA
Luminous Intensity	TLO143	I_V	I_F=15mA	10	40	–	mcd
	TLO144			5	20	–	
Peak Emission Wave Length		λ_P	I_F=15mA	–	610	–	nm
Spectral Line Half Width		$d\lambda$	I_F=15mA	–	35	–	nm

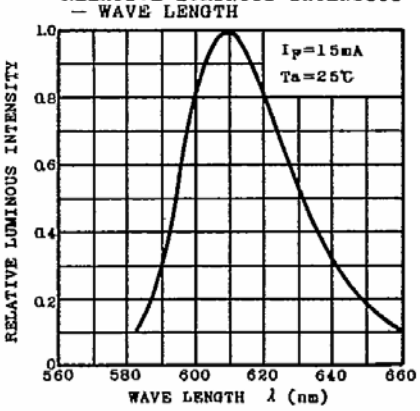
$I_F - V_F$



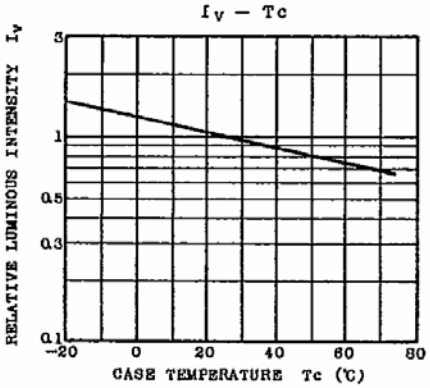
$I_V - I_F$



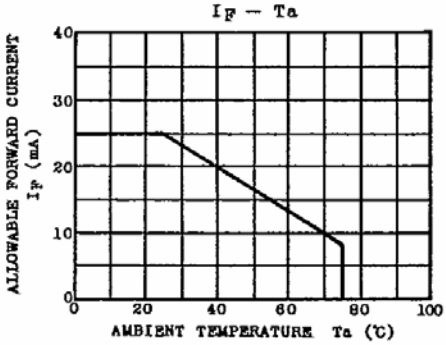
RELATIVE LUMINOUS INTENSITY — WAVE LENGTH



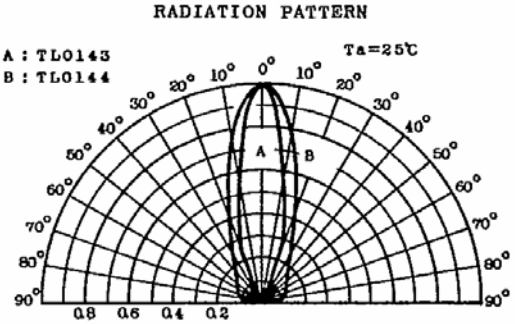
$I_V - Tc$



$I_F - Ta$



RADIATION PATTERN



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